



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 09/381526 Confirmation No. 4076  
Applicant : Marcel Aeschlimann et al.  
Filed : April 12, 2000  
TC/A.U. : 1733  
Examiner : J. Gallagher  
  
Title : PROCESS FOR ANCHORING CONNECTING  
ELEMENTS IN A MATERIAL WITH PORES OR  
CAVITIES AND CONNECTING ELEMENT THEREFOR  
  
Docket No. : FRR-32641  
Customer No. : 7609

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

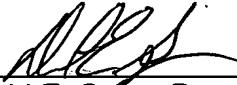
Sir:

In accordance with Rule 56, applicant is aware of the publications listed in the enclosed copy of Patent Office Form PTO/SB/08A. A copy of each of the publications is enclosed herewith.

Respectfully submitted,

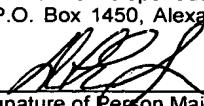
RANKIN, HILL, PORTER & CLARK LLP

By

  
David E. Spaw, Reg. No. 34732

4080 Erie Street  
Willoughby, Ohio 44094  
(216) 566-9700

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

  
Signature of Person Mailing Paper

7/14/2004

Date

David E. Spaw

Printed Name of Person Mailing Paper



JUL 16 2004

16-935

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**Complete If Known**

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Use as many sheets as necessary)

Sheet 1

of 5

Application Number	09/381526
Filing Date	4/12/2000
First Named Inventor	Marcel Aeschlimann et al.
Art Unit	1733
Examiner Name	J. Gallagher

Attorney Docket Number FRR-32641

U. S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code <sup>2</sup> (if known)		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 2002/0044753	04-18-2002	Nagayama et al.
		US- 6099313	08-08-2000	Dorken et al.
		US- 4032803	06-28-1977	Durr et al.
		US- 4248232	02-03-1981	Engelbrecht et al.
		US- 5004422	04-02-1991	Propper
		US- 5019083	05-28-1991	Klapper et al.
		US- 5171148	12-15-1992	Wasserman et al.
		US- 5163960	11-17-1992	Bonutti
		US- 5167619	12-01-1992	Wuchinich
		US- 5413578	05-09-1995	Zahedi
		US- 5593425	01-14-1997	Bonutti et al.
		US- 5426341	06-20-1995	Bory et al.
		US- 5709823	01-20-1998	Hahn
		US- 5735875	04-07-1998	Bonutti et al.
		US- 5871514	02-16-1999	Wiklund et al.
		US- 5871515	02-16-1999	Wiklund et al.
		US- 5897578	04-27-1999	Wiklund et al.
		US- 5919215	07-06-1999	Wiklund et al.
		US- 5941901	08-24-1999	Egan

FOREIGN PATENT DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)		Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		JP 10323351A1	12-08-1998	Terumo Corp.
		DE 4100636A1	01-11-1991	Servo-Dental
		EP 0451932A1	04-10-1991	Mecron
		DE 9012044.2	08-21-1990	Klaus
		DE 2655086	12-04-1976	Rademacher
		DE 0317757.7	11-19-1993	Klaus

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2

of 5

### Complete if Known

Application Number	09/381526
Filing Date	4/12/2000
First Named Inventor	Marcel Aeschlimann et al.
Art Unit	1733
Examiner Name	J. Gallagher

Attorney Docket Number FRR-32641

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 5964764	10-12-1999	West, Jr. et al.	
		US- 5993458	11-30-1999	Vaitekunas et al.	
		US- 5993477	11-30-1999	Vaitekunas et al.	
		US- 6056751	05-02-2000	Fenton, Jr.	
		US- 6068482	05-30-2000	Snow	
		US- 6132214	10-17-2000	Suhonen et al.	
		US- 6139320	10-31-2000	Hahn	
		US- 6039568	03-21-2000	Hinds	
		US- 6059817	05-09-2000	Bonutti et al.	
		US- 6080161	06-27-2000	Eaves, III et al.	
		US- 6141874	11-07-2000	Olsen	
		US- 6193516	02-27-2001	Story	
		US- 6273717	08-14-2001	Hahn et al.	
		US- 6592609	07-15-2003	Bonutti	
		US- 6635073	10-21-2003	Bonutti	
		US- 2002/0077662	06-20-2002	Bonutti et al.	
		US- 5562450	10-08-1996	Gieloff et al.	
		US- 6545390	04-08-2003	Hahn et al.	
		US- 2003/0118518	06-26-2003	Hahn et al.	

### FOREIGN PATENT DOCUMENTS

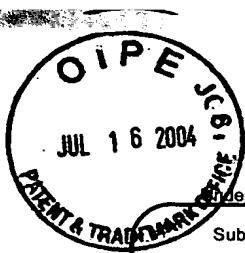
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		DE 4209191A1	03-22-1992	Hahn		
		DE 9012548.7	09-01-1990	Klaus		
		DE 19644333A1	10-25-1996	Hiebsch Peege		
		WO 96/37163	11-28-1996	Siemens		
		WO 88/03391	05-19-1988	Lundgren		
		GB 2324470	10-28-1998	Customflex		

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Substitute for form 1449/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

**(Use as many sheets as necessary)**

Sheet 3

of 5

**Complete if Known**

Application Number	09/381526
Filing Date	4/12/2000
First Named Inventor	Marcel Aeschlimann et al.
Art Unit	1733
Examiner Name	J. Gallagher

Attorney Docket Number FRR-32641

**U. S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		DE 3723643A1	07-17-1987	Rienks		
		DE 20113692U1	08-18-2001	Durr Dental		
		WO 91/03211	03-21-1991	Hahn		
		WO 94/27558	12-08-1994	Hahn		
		WO 02/087459	11-07-2002	Durr Dental		
		DE 19916158A1	04-11-1999	Durr Dental		

<b>Examiner Signature</b>		<b>Date Considered</b>	
-------------------------------	--	----------------------------	--

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



JUL 16 2004

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

Sheet 4

of 5

<b>Complete if Known</b>	
Application Number	09/381526
Filing Date	4/12/2000
First Named Inventor	Marcel Aeschlimann et al.
Art Unit	1733
Examiner Name	J. Gallagher

**Complete if Known**

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		EP 1044656A1	10-18-2000	Durr Dental		
		EP 1044655	03-02-2000	Durr Dental		
		DE 19916160A1	04-11-1999	Durr Dental		
		WO 02/38070 A1	05-16-2002	Durr Dental		
		DE 19735103A1	08-13-1997	Gieloff		
		DE 3919274C1	06-13-1989	Schroter		

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **Applicant's unique citation designation number (optional).** <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

**(Use as many sheets as necessary)**

51

991

of 5

**Complete if Known**

Application Number	09/381526
Filing Date	4/12/2000
First Named Inventor	Marcel Aeschlimann et al.
Art Unit	1733
Examiner Name	J. Gallagher

51

991

of 5

## U. S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.